

Laboratory Cuse Metrology & Quality Management Services, 487, Venkatasamy Street, New Siddha Pudur, Coimbatore, Tamil Nadu
Accreditation Standard ISO/IEC 17025: 2005
Certificate Number CC-2535 (in lieu of C-0787) **Page** 1 of 13
Validity 10.01.2018 to 09.01.2020 **Last Amended on** 26.04.2018

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>MECHANICAL CALIBRATION</u>				
I.	DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)			
1.	Caliper ^s (Vernier /Dial/Digital) L.C.: 0.01 mm and coarser	Up to 300 mm Above 300 Up to 600 mm Above 600 Up to 1000 mm Above 1000 Up to 2000 mm	13.0 μ m 19.0 μ m 29.0 μ m 38.0 μ m	Using Gauge Blocks / Long Gauge / Caliper Checker / Gauge Block Accessories By Comparison method based on IS: 3651 (Part 1 & 2)
2.	Depth Caliper ^s (Vernier / Dial / Digital) L.C.: 0.01 mm and coarser	Up to 300 mm Above 300 Up to 600 mm Above 600 Up to 1000 mm	12.0 μ m 19.0 μ m 31.0 μ m	Using Gauge Blocks / Long Gauge / Caliper Checker By Comparison based on IS: 4213
3.	Height Gauge ^s (Vernier / Dial / Digital) L.C.: 0.01 mm and coarser	Up to 300mm Above 300 Up to 600 mm Above 600 Up to 1000 mm	13.0 μ m 20.0 μ m 29.0 μ m	Using Gauge Blocks / Long Gauge / Caliper Checker By Comparison based on IS: 2921
4.	External Micrometer ^s (Mechanical / Digital) L.C.: 0.001 mm and coarser	Up to 100 mm Above 100 Up to 300 mm Above 300 Up to 600 mm Above 600 Up to 1000 mm	1.5 μ m 3.5 μ m 5.0 μ m 11.0 μ m	Using Micrometer Check Set / Gauge Blocks / Long Gauge Blocks By Comparison based on IS: 2967

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5.	Depth Micrometer ^{\$} L.C.: 0.001 mm and coarser	Up to 100 mm Above 100 Up to 300 mm	3.0 μ m 4.5 μ m	Using Micrometer Check Set / Gauge Blocks / Long Gauge By Comparison based on IS: 2967
6.	Inside/Stick Micrometer Micrometer Head ^{\$} L.C.: 0.001 mm and coarser Extensions	Up to 50 mm Up to 100 mm Above 100 Up to 300 mm Above 300 Up to 1000 mm	3.2 μ m 2.0 μ m 4.0 μ m 11.0 μ m	Using Gauge Blocks, Electronic Comparator By comparison based on IS: 2966 Using Gauge Blocks / Long Gauge Blocks/ Electronic Comparator
7.	Pitch Micrometer ^{\$} L.C.: 0.001 mm and coarser	Up to 100 mm Above 100 Up to 200 mm	2.0 μ m 3.5 μ m	Using Micrometer Check Set / Gauge Blocks / VMM By comparison based on IS:2967
8.	V Anvil Micrometer ^{\$} LC 0.001 mm and Coarser	Up to 100 mm	3.6 μ m	Using Cylindrical Setting Master By comparison based on IS:2967
9.	Comparator ^{\$} (Mech/Electronic) Res.: 0.0001 mm and Coarser	Up to 300 mm Up to 1000 mm	2.0 μ m 4.0 μ m	Using Gauge Blocks By comparison based on IS:2092
10.	Plunger Type Dial Gauge ^{\$} LC.: 001mm and Coarser	Up to 100 mm	1.5 μ m	Using Universal Length Measuring Machine (ULM) By comparison based on IS:2092
11.	Precision Dial Gauge (Analog/Digital) ^{\$} L.C.: 0.0005 mm and Coarser	Up to \pm 50 μ m	0.5 μ m	Using Gauge Block/ULM By comparison based on IS:2092

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Convenor

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Program Director

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12.	Lever Typr Dial Gauge / Lever Head ^{\$} L.C.: 0.0001 mm and coarser	Up to \pm 2 mm	1.0 μ m	Using Gauge Block/ULM By Comparison based on IS: 11498
13.	LVDT Probe with DRO ^{\$} L.C.: 0.0001 mm and coarser	Up to \pm 5 mm Up to \pm 25 mm	1.5 μ m 2.5 μ m	Using Gauge Block/ULM By Comparison based on IS: 11498
14.	Bore Gauge ^{\$} (Stem/Split/Contact Type) (Transmission Only)	Probing Range: Up to 3 mm	3.2 μ m	Using ULM Digital Dial Gauge By Comparison based on JIS: B 7515
15.	Dial Snap Gauge/ Passometer/ Dial Thickness Gauge ^{\$} L.C.: 0.001 mm and Coarser	Up to 100 mm Above 100 Up to 200 mm	1.7 μ m 2.1 μ m	Using Gauge Blocks By Comparison based on IS: 14271 & 2092
16.	Feeler Gauge / Thickness Gauge ^{\$}	Up to 25 mm	2.1 μ m	Using Digital Micrometer/ Gauge Block / Electronic Comparator By Comparison based on IS:3179
17.	Coating Thickness Foil ^{\$}	Up to 2 mm	1.9 μ m	Using Electronic Comparator / Digital Dial By comparison based on IS:3179
18.	Coating Thickness Gauge ^{\$} L.C.: 0.001 mm	Up to 2 mm	2.5 μ m	Using Standard Foil By comparison method

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19.	Ultrasonic Thickness Gauge ^{\$}	Up to 100 mm	65.3 μ m	Using Gauge Blocks By comparison method
20.	Internal Dial Caliper Gauge / Groove Dial Gauge / Inter Tester ^{\$} L.C.: 0.005 mm and coarser	Up to 300 mm	8.0 μ m	Using Gauge Block/ Gauge Block Accessories By comparison Based on IS:2092
21.	External Dial Caliper Gauge / Groove Dial Gauge / Pistol Caliper ^{\$} L.C.: 0.005 mm and coarser L.C.: 0.1 mm	Up to 100 mm Up to 300 mm Up to 300 mm	8.0 μ m 14.0 μ m 76.0 μ m	Using Gauge Block/ Gauge Block Accessories By comparison method as per IS:2092
22.	Indicating Snap Micrometer ^{\$} L.C.: 0.001 mm	Up to 100 mm Above 100 Up to 200 mm	3.6 μ m 4.3 μ m	Using Micrometer Gauge blocks & Gauge Blocks based on IS:2967 & 2092
23.	Groove Micrometer / ID Micrometer ^{\$} L.C.: 0.001 mm and Coarser	Up to 100 mm Above 100 Up to 200 mm	3.5 μ m 4.0 μ m	Using Gauge Block / Gauge Block Accessories By comparison method as per IS:2967
24.	Chamfer Gauge ^{\$} (Dial Gauge) Length Displacement L.C.: 0.001mm and coarser	Up to 25 mm Angle	3.0 μ m 10 min	Using ULM / VMM by comparison method based on IS:2092
25.	Bevel Protractor / Combination Set ^{\$} L.C.: 1 Min of Arc	LC 1 Deg Up to 180° Up to 360°	45 min 5.5 min	Using Angle Gauge Blocks / VMM based on IS:5812 & IS:4239

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
26.	Sine Bar / Sine Table / Sine Center ^{\$}	Angle Distance	5 min 7.6 μ m	Using Angle Gauge Block /Gauge Block / Electronic Comparator / VMM Based on IS:5359
27.	Sprit Level / Digital Level ^{\$}	Up to 12.5 mm/mtr	7.6 μ m/mtr	Using Tilting Table with Electronic Level based on IS:5706
28.	Thread Measuring Wires / Pin Gauges / Cylinders ^{\$}	Up to 25 mm	1.5 μ m	Using Gauge Block & Electronic Comparator / ULM Based on IS:6311
29.	Cylindrical Setting Master / Master Plug ^{\$}	Up to 100mm Above 100 Up to 200 mm	2.1 μ m 2.6 μ m	Using Gauge Block / Electronic Comparator / ULM Based on IS:4349
30.	Sphere ^{\$} (Diameter and Diameter Variation)	Up to 5 mm Above 5 Up to 25 mm	1.0 μ m 1.3 μ m	Using ULM by Comparison Method
31.	Plain Plug Gauge/ Segment Plug Gauge ^{\$}	Up to \varnothing 100 mm Above \varnothing 100 Up to \varnothing 200 mm Above \varnothing 200 Up to \varnothing 300 mm Above \varnothing 300 Up to \varnothing 500 mm Above \varnothing 500 Up to \varnothing 800 mm	2.0 μ m 3.0 μ m 4.0 μ m 6.0 μ m 8.0 μ m	Using Gauge Block / Electronic Comparator / ULM Based on IS:3455
32.	Setting Rod / Height Setting Master/Raiser Block / Width Gauge ^{\$}	Up to 100 mm >100 mm to 200 mm >200 mm to 300 mm >300 mm to 500 mm >500 mm to 750 mm >750 mm to 1000 mm	2.0 μ m 3.0 μ m 4.0 μ m 6.0 μ m 9.0 μ m 11.0 μ m	Using Gauge Block / Long Gauge Block / Electronic Comparator/ 2D Based on IS 3455 & IS 13907

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33.	Thread Plug Gauge (Normal Check Plug Gauge, Wear Check Plug Gauge) (Major & Effective Diameter only) ^{\$}	Up to M100 >M100 to M300 >M300 to M500	3.5 μ m 5.0 μ m 8.0 μ m	Using ULM / VMM Based on IS 2334, 2418 & BS 21
	Half Flank Angle and Pitch	Angle Pitch	5.5 min 8.0 μ m	
34.	Taper Thread Plug Gauge ^{\$} (Effective Diameter at Gauge Plane)	0 to 50 mm >50 mm to 100 mm >100 mm to 200 mm	3.8 μ m 4.4 μ m 6.1 μ m	Using ULM, Gauge Blocks Based on ANSI/ ASME B 1.20.5
35.	Setting Ring / Plain Ring / Plain ID/ Segmental ID Gauge ^{\$}	4 mm to 100 mm >100 mm to 200 mm >200 mm to 300 mm >300 mm to 550 mm	2.2 μ m 3.0 μ m 5.0 μ m 7.7 μ m	Using ULM Based on IS 3455 & 3485
36.	Thread Ring Gauge ^{\$} (Effective Diameter only)	4 mm to 100 mm >100 mm to 200 mm >200 mm to 350 mm > 350 mm to 500 mm	3.1 μ m 7.6 μ m 9.6 μ m 11.5 μ m	Using ULM Based on IS: 2334, 4218 & BS 21
37.	Taper Thread Ring Gauge ^{\$}	4 mm to 100 mm >100 mm to 200 mm	4.0 μ m 5.5 μ m	Using ULM By Comparison based on ANSI/ASME/B 1.20.5
38.	Taper Plain Ring Gauge ^{\$} (Minimum, Maximum Diameter, Angle)	Up to 100 mm	3.5 mm	Using Gauge Blocks / Electronic Comparator / ULM Based on IS: 9529 By Comparison Method

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39.	Taper Plain Plug Gauge ^s (Minimum Maximum Diameter, Angle) Segment Taper Gauges	Up to 200 mm >200 mm to 600 mm	3.5 μ m 7.6 μ m	Using Gauge Blocks / Electronic Comparator / ULM Based on Based on IS: 9529 by Comparison Method
40.	Spline Plug Gauge ^s	Up to 150 mm	2.8 μ m	Using ULM Based on DIN 5480
41.	Spline Ring Gauge ^s	5 mm to 120 mm	3.0 μ m	Using ULM Based on DIN 5480
42.	Fixed / Adjustable Snap Gauge / Gap Gauge ^s	Up to 200 mm >200 mm to 300 mm >300 mm to 500 mm >500 mm to 750 mm >750 mm to 1000 mm	4.0 μ m 5.0 μ m 7.0 μ m 9.0 μ m 12.0 μ m	Using Gauge Blocks / Long Gauge Blocks & Gauge Block Accessories Based on IS: 3455 By Comparison Method
43.	Comparator Stand / Plate ^s (Flatness)	Up to 100 mm dia Up to 300 mm x 300 mm	1.5 μ m 3.5 μ m	Using Optical Flat / Digital Dial Gauge Leveling Jack Based on IS 7599 By Comparison Method
44.	Engineers Parallel ^s (Parallelism)	Up to 300mm	4.5 μ m	Using Gauge Blocks / Electronic Comparator Based on IS: 4241 By Comparison Method
45.	Flush Pin Gauge ^s	Up to 100mm	5.0 μ m	Using Gauge Blocks / Electronic Comparator By Comparison Method

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46.	Taper Flush Pin Gauge ^{\$}	Up to 100 mm	7.0 μ m	Using Gauge Blocks / Electronic Comparator / ULM By Comparison Method
47.	Radius Gauge / Radius ^{\$}	Up to 50 mm Up to 200 mm	8.0 μ m 12 μ m	Using VMM Based on IS: 5723 By Comparison Method
48.	Welding/Weld Fillet Gauge ^{\$}	Up to 50 mm	8.0 μ m	Using VMM By Comparison method
49.	Pitch Gauge / Angle Template Angle Of Indenter Angle ^{\$} (Distance, Angle)	Up to 20 mm Up to 90°	8.0 μ m 10 min	Using VMM Based on IS 4211 By Comparison Method
50.	Test Sieves ^{\$} (Gap)	Up to 100 mm	10 μ m	Using VMM based on IS 4608-3 By Comparison Method
51.	Taper Gauge / Taper Scale ^{\$}	Up to 100 mm	10 μ m	Using VMM By Comparison Method
52.	Wire Gauge (Gap) ^{\$}	Up to 20 mm	8 μ m	Using VMM By Comparison Method
53.	Wet Film Thickness Gauge ^{\$}	Up to 5 mm	8 μ m	Using VMM Based on ASTM D 4414
54.	Chamfer Gauge Set ^{\$} (Distance, Angle)	Length Angle	8.0 μ m 10 min	Using VMM By Comparison Method
55.	Scale ^{\$}	1000 mm	0.8√L mm L in Mtr	Using Scale Calibrator Based on IS 1481

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56.	Tape/Pie Tape ^{\$}	50 mtr	0.8√L mm L inMtr	Using Scale Calibrator Based on IS 1269
57.	Receiver Gauge, Position Gauge, Drill JIG ^{\$} (Pitch, PCD, Dia, Radius, Angle, Distance)	400 mm x 200 mm Angle	10.0 μ m 10.0 min	Using VMM By Comparison Method
58.	V-Block ^{\$} (Parallelism & Symmetry)	Up to 300mm	5.0 μ m	Using Precision Cylinders, Electronic Comparator Based on IS 2949 & 4960
59.	Try Square ^{\$} (Perpendicularity)	600 mm	7.7 μ m	Using VMM / 2D Based on IS 2103
60.	Angle Plate / Box Angle Plate ^{\$} Up to 600mm	Squareness Parallelism	8.0 μ m 6.0 μ m	Using 2D / Digital Dial / Electronic comparator Based on IS 2554
61.	Beam Gauge /ID OD Comparator ^{\$}	Up to 600 mm >600 mm to 1000 mm	7.0 μ m 9.0 μ m	Using Gauge Blocks/ Gauge Block Accessories/ Digital Dial Gauge Based on IS 2092
62.	Straight Mandrel ^{\$}	Up to 300 mm 600 mm 1000 mm	8.3 μ m 8.3 μ m 12.0 μ m	Using Gauge Blocks & Electronic Comparator, Bench Center Based on IS 7262
63.	Dial Calibration Tester ^{\$}	Up to 100 mm	1.6 μ m	Using Gauge Blocks & Electronic Comparator By Comparison Method

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64.	FCDMM ^{\$} (Accuracy of Drum, Electronic Probe)	Up to 100 mm	2.0 μ m	Using Gauge Blocks. Based on NPL - MOY / SCMI/9
65.	Height Micrometer With Riser Block ^{\$}	Up to 600 mm	4.5 μ m	By Using Micrometer Gauge Block/Gauge Block / Electronic Comparator/ 2D Based on IS 13907
66.	Caliper Checker / Depth Micro Checker ^{\$}	Up to 300 mm Up to 1000 mm	4.0 μ m 8.6 μ m	Using Gauge Block / Electronic Comparator/ 2D by comparison method
67.	Long Gauge Block / Length Bar ^{\$}	>100 mm to 200 mm >200 mm to 300 mm >300 mm to 500 mm >500 mm to 1000 mm	1.5 μ m@ 2.0 μ m@ 3.0 μ m@ 6.5 μ m	Using Gauge Blocks, Long Gauge Blocks & Electronic Comparator / 2D By comparison Method based on IS 7014
68.	Gauge Block Accessories Flatness Parallelism ^{\$}	Up to 100 mm	1.0 μ m 2.0 μ m	Using Optical Flat Gauge Block & Electronic Comparator By Comparison Method Based on IS 4440
69.	Tachometer – Contact [#]	100 RPM to 8000 RPM	0.9 % of rdg	Using Master Tachometer with Jig By Comparison Method
70.	Universal Length Measuring (ULM) [#] L.C.: 0.0001 mm / 0.00001 mm Auxiliary Scale	Up to 100 mm 500 mm 100 mm	0.8 μ m 1.7 μ m 1.6 μ m	Using Gauge Blocks & Long Gauge Blocks By Comparison Method

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71.	Precision Height [#] Measuring System 2D L.C.: 0.0001 & Coarser	Up to 300 mm >300 mm to 600 mm >600 mm to 1000 mm	4.0 μ m 5.5 μ m 8.5 μ m	Using Gauge Blocks & Long Gauge Block By Comparison Method Based on IS 2921
	Squareness	Up to 600 mm	8.5 μ m	Using Cylinder Master By Comparison Method
72.	Coordinate Measuring Machine [#] (Linear)	Up to 2000mm	(2.5+ (L/175)) μ m	Using Gauge Blocks, Long Gauge Blocks With Fixture by comparison method based on ISO 10360-2
73.	Profile Projector/ Tool Maker Microscope / Vision Measuring Machine [#]	Linear 360 mm Angle	10 μ m 10.0 min	Using Glass Scale, Angle Gauge Blocks, Based on Comparison Method
74.	Scale Calibrator [#]	Up to 1000 mm	20.0 μ m	Using Gauge Blocks, By Comparison Method
75.	Air Gauge Unit [#] (Linearity)	0.05 mm	3.8 μ m	Using Setting Ring Gauges & Air Plug Gauges By Comparison Method
76.	Bench Centre [#]	Up to 1000 mm	8.8 μ m	Using Mandrel, Digital Dial by comparison method based on IS: 5980
77.	Straight Edge [#]	Up to 6000 mm	$1.0 \sqrt{\frac{W}{B}} \mu\text{m}$	Using Digital Dial & Surface plate / Electronic Level, by comparison method Based on IS:2220

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78.	Surface Plate [#]	9000 mm x 3000 mm	$1.0 \sqrt{\frac{(L+W)}{B}} \mu\text{m}$	By Using Electronic Level By Comparison method Based on IS 7327 , 12937
II.	PRESSURE INDICATING DEVICES			
1.	Pressure (Pneumatic) Pressure, Gauges/ Pressure Transmitters / Pressure Transducer, Recorders & Pressure Switches [#]	0 to 35 bar	0.4 % rdg	Using Digital Pressure Calibrators with Pressure Module, By comparison method as per DKD-R-6-1
2.	Pressure – (Hydraulic) Pressure Gauges, Pressure Transmitters / Transducers, Recorders / Pressure Switches [#]	0 to 200 bar 200 bar to 700 bar	0.4 % rdg 0.4 % rdg	Using Digital Pressure Calibrator By comparison method as per DKD-R-6-1
3.	Vacuum Gauges, Vacuum Transmitters/ Transducers / Switches [#]	(-) 0.85 bar to 0 bar	0.6 % rdg	Using Digital Pressure Calibrator By comparison method as per DKD-R-6-1
4.	Differential Pressure Pressure Gauges Transmitters , Recorders, Pressure Switches [#]	10 mm to 2000 mm Water Column	0.72 % rdg	Using Digital Manometer, By comparison method as per DKD-R-6-1

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III.	ACOUSTICS			
1.	Sound Level Meter ^{\$} (Class 2)	35 dB to 130 dB	1% of rdg	Using Sound Level Calibrator By comparison Method as per IS 15575 (Part-1)
IV.	TORQUE GENERATING DEVICES			
1.	Torque Wrenches and Torque Screw Drivers ^{\$} Type 1 & Type 2	0 to 10 Nm 10 Nm to 100 Nm 100 Nm to 1000 Nm 1000 Nm to 3000 Nm	0.8 % reading 0.86 % reading 1 % reading 1.02 % reading	Using Torque Calibration System Based on ISO 6789
2.	Hand held Pneumatic Assembly tools and Torque Controlled DC Nut runners ^{\$}	1 Nm to 35 Nm	2.0 % reading	Using Torque Calibration System Based on ISO 6544 and ISO 5393

* Measurement Capability is expressed as an uncertainty (\pm) at a confidence probability of 95%

^{\$}Only in Permanent Laboratory

The laboratory is also capable for site calibration however, the uncertainty at site depends on the prevailing actual environmental conditions and master equipment used.

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